0590
C321

ENTERED

RAW SEQUENCE LISTING   DATE: 03/21/2003
PATENT APPLICATION: US/10/042,746   TIME: 14:30:58

Input Set : N:\Crf3\RULE60\10042746.RAW.txt
Output Set: N:\CRF4\03212003\J042746.raw

SEQUENCE LISTING

```
 3 (1) GENERAL INFORMATION:
        (i) APPLICANT: Drucker, Daniel J.
     (ii) TITLE OF INVENTION: GLUCAGON-LIKE PEPTIDE 2 AND ITS THERAPEUTIC
                              USE
11   (iii) NUMBER OF SEQUENCES: 4
13    (iv) CORRESPONDENCE ADDRESS:
14        (A) ADDRESSEE: Pennie & Edmonds LLP
15        (B) STREET: 1155 Avenue of the Americas
16        (C) CITY: New York
17        (D) STATE: New York
18        (E) COUNTRY: USA
19        (F) ZIP: 10036-2711
21     (v) COMPUTER READABLE FORM:
22        (A) MEDIUM TYPE: Floppy disk
23        (B) COMPUTER: IBM PC compatible
24        (C) OPERATING SYSTEM: PC-DOS/MS-DOS
25        (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
27    (vi) CURRENT APPLICATION DATA:
```

```
C--> 28        (A) APPLICATION NUMBER: US/10/042,746
C--> 29        (B) FILING DATE: 20-Nov-2002
W--> 34        (C) CLASSIFICATION: 514
```

```
31   (vii) PRIOR APPLICATION DATA:
32        (A) APPLICATION NUMBER: US/08/632,533
33        (B) FILING DATE: 12-APR-1996
35  (viii) ATTORNEY/AGENT INFORMATION:
36        (A) NAME: Friebel, Thomas E.
37        (B) REGISTRATION NUMBER: 29,258
38        (C) REFERENCE/DOCKET NUMBER: 8607-004
40    (ix) TELECOMMUNICATION INFORMATION:
41        (A) TELEPHONE: 212-790-9090
42        (B) TELEFAX: (212)869-8864/9741
45 (2) INFORMATION FOR SEQ ID NO: 1:
47     (i) SEQUENCE CHARACTERISTICS:
48        (A) LENGTH: 37 amino acids
49        (B) TYPE: amino acid
50        (C) STRANDEDNESS:
51        (D) TOPOLOGY: unknown
53    (ii) MOLECULE TYPE: peptide
56    (ix) FEATURE:
57        (A) NAME/KEY: Modified-site
58        (B) LOCATION: 1
59        (D) OTHER INFORMATION: /note= "An amino acid selected from His,
```

RAW SEQUENCE LISTING   DATE: 03/21/2003
PATENT APPLICATION: US/10/042,746   TIME: 14:30:58

Input Set : N:\Crf3\RULE60\10042746.RAW.txt
Output Set: N:\CRF4\03212003\J042746.raw

```
60 Arg, or Lys. Xaa may or may not be present in the sequence."
62      (ix) FEATURE:
63           (A) NAME/KEY: Modified-site
64           (B) LOCATION: 2
65           (D) OTHER INFORMATION: /note= "An amino acid selected from His,
66 Arg, or Lys. Xaa may or may not be present in the sequence."
68      (ix) FEATURE:
69           (A) NAME/KEY: Modified-site
70           (B) LOCATION: 16
71           (D) OTHER INFORMATION: /note= "An amino acid selected from Met,
72 Leu, Ile, Val or Cys."
73      (ix) FEATURE:
74           (A) NAME/KEY: Modified-site
75           (B) LOCATION: 17
77           (D) OTHER INFORMATION: /note= "An amino acid selected from Ala,
78 Ser, Thr, Pro, Gly, Asn, Asp, Glu or Gln."
80      (ix) FEATURE:
81           (A) NAME/KEY: Modified-site
82           (B) LOCATION: 21
83           (D) OTHER INFORMATION: /note= "An amino acid selected from Ala,
84 Ser, Thr, Pro or Gly."
86      (ix) FEATURE:
87           (A) NAME/KEY: Modified-site
88           (B) LOCATION: 22
89           (D) OTHER INFORMATION: /note= "An amino acid selected from His,
90 Arg or Lys."
92      (ix) FEATURE:
93           (A) NAME/KEY: Modified-site
94           (B) LOCATION: 24
95           (D) OTHER INFORMATION: /note= "An amino acid selected from Met,
96 Leu, Ile, Val or Cys."
98      (ix) FEATURE:
99           (A) NAME/KEY: Modified-site
100          (B) LOCATION: 30
101          (D) OTHER INFORMATION: /note= "An amino acid selected from Asn,
102 Asp, Glu, Gln, His, Arg or Lys."
104     (ix) FEATURE:
105          (A) NAME/KEY: Modified-site
106          (B) LOCATION: 36
107          (D) OTHER INFORMATION: /note= "An amino acid selected from His,
108 Arg or Lys. Xaa may or may not be present in the sequence."
110     (ix) FEATURE:
111          (A) NAME/KEY: Modified-site
112          (B) LOCATION: 37
113          (D) OTHER INFORMATION: /note= "An amino acid selected from His,
114 Arg or Lys. Xaa may or may not be present in the sequence."
116     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
W--> 120    Xaa Xaa His Ala Asp Gly Ser Phe Ser Asp Glu Met Asn Thr Xaa Leu
121    1               5                   10                  15
```

RAW SEQUENCE LISTING   DATE: 03/21/2003
PATENT APPLICATION: **US/10/042,746**   TIME: 14:30:58

Input Set : **N:\Crf3\RULE60\10042746.RAW.txt**
Output Set: **N:\CRF4\03212003\J042746.raw**

```
1.2        Asp Xaa Leu Ala Xaa Xaa Asp Phe Ile Asn Trp Leu Xaa Xaa Thr Lys
1.3                     20                  25                  30
1.4        Ile Thr Asp Xaa Xaa
1.5                     35
1.9  (2) INFORMATION FOR SEQ ID NO: 2:
1.1        (i) SEQUENCE CHARACTERISTICS:
1.2            (A) LENGTH: 37 amino acids
1.3            (B) TYPE: amino acid
1.4            (C) STRANDEDNESS:
1.5            (D) TOPOLOGY: unknown
1.5       (ii) MOLECULE TYPE: peptide
1.1       (ix) FEATURE:
1.41           (A) NAME/KEY: Modified-site
1.42           (B) LOCATION: 1
1.43           (D) OTHER INFORMATION: /note= "An amino acid selected from His,
144 Arg, or Lys. Xaa may or may not be present in the sequence."
146       (ix) FEATURE:
147            (A) NAME/KEY: Modified-site
148            (B) LOCATION: 2
149            (D) OTHER INFORMATION: /note= "An amino acid selected from His,
1.0 Arg, or Lys. Xaa may or may not be present in the sequence."
1.      (ix) FEATURE:
1.            (A) NAME/KEY: Modified-site
1.4           (B) LOCATION: 11
1.            (D) OTHER INFORMATION: /note= "An amino acid selected from Ala,
1.. Ser, Thr, Pro or Gly."
1.      (ix) FEATURE:
1..           (A) NAME/KEY: Modified-site
160            (B) LOCATION: 36
161            (D) OTHER INFORMATION: /note= "An amino acid selected from His,
16. Arg, or Lys. Xaa may or may not be present in the sequence."
164       (ix) FEATURE:
165            (A) NAME/KEY: Modified-site
166            (B) LOCATION: 37
167            (D) OTHER INFORMATION: /note= An amino acid selected from His,
168 Arg, or Lys. Xaa may or may not be present in the sequence."
1.1      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
```
W--> **173**   **Xaa Xaa His Ala Asp Gly Ser Phe Ser Asp Glu Met Asn Thr Ile Leu**
```
1.4        1                               10                  15
1.5        Asp Asn Leu Ala Xaa Arg Asp Phe Ile Asn Trp Leu Ile Gln Thr Lys
1.6                     1                   25                  30
1.7        Ile Thr Asp Xaa Xaa
178                     35
181  (2) INFORMATION FOR SEQ ID NO: 3:
183        (i) SEQUENCE CHARACTERISTICS:
184            (A) LENGTH: 33 amino acids
185            (B) TYPE: amino acid
186            (C) STRANDEDNESS:
187            (D) TOPOLOGY: unknown
```

RAW SEQUENCE LISTING   DATE: 03/21/2003
PATENT APPLICATION: **US/10/042,746** TIME: 14:30:58

Input Set : **N:\Crf3\RULE60\10042746.RAW.txt**
Output Set: **N:\CRF4\03212003\J042746.raw**

```
194     (ii) MOLECULE TYPE: peptide
193     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
196     His Ala Asp Gly Ser Phe Ser Asp Glu Met Asn Thr Ile Leu Asp Asn
197     1               5                   10                  15
198     Leu Ala Thr Arg Asp Phe Ile Asn Trp Leu Ile Gln Thr Lys Ile Thr
199                     20                  25                  30
200         Asp
204 (2) INFORMATION FOR SEQ ID NO: 4:
206         (i) SEQUENCE CHARACTERISTICS:
207             (A) LENGTH: 33 amino acids
208             (B) TYPE: amino acid
209             (C) STRANDEDNESS:
211             (D) TOPOLOGY: unknown
212         (ii) MOLECULE TYPE: peptide
215         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
218         His Ala Asp Gly Ser Phe Ser Asp Glu Met Asn Thr Ile Leu Asp Asn
219         1               5                   10                  15
220         Leu Ala Ala Arg Asp Phe Ile Asn Trp Leu Ile Gln Thr Lys Ile Thr
221                         20                  25                  30
222             Asp
```

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 03/21/2003
PATENT APPLICATION: **US/10/042,746** TIME: 14:30:59

Input Set : **N:\Crf3\RULE60\10042746.RAW.txt**
Output Set: **N:\CRF4\03212003\J042746.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos.1,2,15,18,21,22,29,30,36,37
Seq#:2; Xaa Pos.1,2,21,36,37

VERIFICATION SUMMARY   DATE: 03/21/2003
PATENT APPLICATION: **US/10/042,746**   TIME: 14:30:59

Input Set : **N:\Crf3\RULE60\10042746.RAW.txt**
Output Set: **N:\CRF4\03212003\J042746.raw**

```
L:28 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:29 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:34 M:438 W: Alpha Fields not Ordered, Reordered [(C) CLASSIFICATION:] of (1)(vi)
L:120 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
M:341 Repeated in SeqNo=1
L:173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
M:341 Repeated in SeqNo=2
```